FCC Compliance Statement

This device complies with Part 15 of the FCC Rules.
Operation is subject to the following conditions:
This device may not cause harmful interference
This device must accept any interference received, including interference that my cause undesired operation.

Please Note: This equipment has been tested and found to comply with the limits for a Class B digital device, pursuant to part 15 of the FCC Rules. These limits are designed to provide reasonable protection against harmful interference in a residential installation. This equipment generates uses and can radiate radio frequency energy and, if not installed and used in accordance with the instructions, may cause harmful interference to radio communications. However, there is no guarantee that interference will not occur in a particular installation. If this equipment does cause harmful interference to radio or television reception, which can be determined by turning the equipment off and on, the user is encouraged to try to correct the interference by one or more of the following measures:

- Reorient or relocate the receiving antenna.
- Increase the separation between the equipment and the receiver.
- Connect the equipment into an outlet on a circuit different from that to which the receiver is connected.

Caution: To comply with the limits for an FCC Class B computing device, always use the signal cord and power cord supplied with this unit.

The Federal communications Commission warns that changes or modifications to the unit not expressly approved by the party responsible for compliance could void the user's authority to operate the equipment.

European Notice
CE mark for Class B ITE (Following European standard EN55022/1998; EN61000-3-2/1995; EN61000-3-3/1995, EN55024/1998, EN60950/1992+A1+A2+A3+A4+A11)

Radio Frequency Interference Statement

Warning:

This is a Class B product. In a domestic environment, this product may cause radio interference in which case the user may be required to take adequate measures.

Canadian Doc Notice

For Class B Computing Devices

This digital apparatus does not exceed the Class B limits for radio noise emissions from digital apparatus as set out in the Radio Interference Regulation of the Canadian Department of Communications.

“Le présent appareil numérique n’èmet pas de bruits radioélectriques dépassant les limites applicables aux appareils numériques de la class B prescrites dans le Règlement sur le brouillage radioélectrique édicté par le ministère des Communications du Canada."

Important Information

WARNING: TO REDUCE THE RISK OF FIRE OR ELECTRIC SHOCK, DO NOT EXPOSE THIS PRODUCT TO RAIN OR MOISTURE.

CAUTION
RISK OF ELECTRIC SHOCK
DO NOT OPEN

CAUTION: TO REDUCE THE RISK OF ELECTRIC SHOCK,
DO NOT REMOVE COVER (OR BACK).
NO USER-SERVICEABLE PARTS INSIDE.
REFER SERVICING TO QUALIFIED SERVICE PERSONNEL.

The lightning flash with arrow-head symbol, within an equilateral triangle, is intended to alert the user to the presence of uninsulated "dangerous voltage" within the product's enclosure that may be of sufficient magnitude to constitute a risk of electric shock to persons.

The exclamation point within a triangle is intended to alert the user to the presence of important operating and maintenance (servicing) instructions in the literature accompanying the product.

CAUTION: TO PREVENT ELECTRIC SHOCK, MATCH WIDE BLADE OF PLUG TO WIDE SLOT, FULLY INSERT.

CAUTION:
DO NOT PLACE THIS PRODUCT ON AN UNSTABLE CART, STAND, TRIPOD, BRACKET, OR TABLE. THE PRODUCT MAY FALL CAUSING SERIOUS PERSONAL INJURY AND SERIOUS DAMAGE TO THE PRODUCT. USE ONLY WITH A CART, STAND, TRIPOD, BRACKET, OR TABLE RECOMMENDED BY THE MANUFACTURER OR SOLD WITH THE PRODUCT. FOLLOW THE MANUFACTURER'S INSTRUCTIONS WHEN INSTALLING THE PRODUCT AND USE MOUNTING ACCESSORIES RECOMMENDED BY THE MANUFACTURER. A PRODUCT AND CART COMBINATION SHOULD BE MOVED WITH CARE. QUICK STOPS, EXCESSIVE FORCE, AND UNEVEN SURFACES MAY CAUSE THE PRODUCT AND CART COMBINATION TO OVERTURN.

WARNING: FCC Regulations state that any unauthorized changes or modifications to this equipment not expressly approved by the manufacturer could void the user's authority to operate this equipment.

CAUTION:
This product satisfies FCC regulations when shielded cables and connectors are used to connect the unit to other equipment. To prevent electromagnetic interference with electric appliances such as radios and televisions, use shielded cables and connectors for connections.

This product utilizes tin-lead solder, and fluorescent lamp containing a small amount of mercury. Disposal of these materials may be regulated due to environmental considerations. For disposal or recycling information, please contact your local authorities or the Electronic Industries Alliance: www.eia.org

Important Information

Electricity is used to perform many useful functions, but it can also cause personal injuries and property damage if improperly handled. This product has been engineered and manufactured with the highest priority on safety. However, improper use can result in electric shock and / or fire. In order to prevent potential danger, please observe the following instructions when installing, operating and cleaning the product. To ensure your safety and prolong the service life of your Liquid Crystal Display, please read the following precautions carefully before using the product.

1. Read these instructions.
2. Keep these instructions.
3. Heed all warnings.
4. Follow all instructions.
5. Do not use this apparatus near water.
6. Clean only with dry cloth.
7. Do not block any ventilation openings. Install in accordance with the manufacturer's instructions.
8. Do not install near any heat sources such as radiators, heat registers, stoves, or other apparatus (including amplifiers) that produce heat.
9. Do not defeat the safety purpose of the polarized or grounding-type plug. A polarized plug has two blades with one wider than the other. A grounding type plug has two blades and a third grounding prong. The wide blade and the third prong are provided for your safety. If the provided plug does not fit into your outlet, consult an electrician for replacement of the obsolete outlet.
10. Protect the power cord from being walked on or pinched particularly at the plugs, convenience receptacles, and the point where they exit from the apparatus.
11. Only use attachments/accessories specified by the manufacturer.
12. Use only with the cart, stand, tripod, bracket, or table specified by the manufacturer, or sold with the apparatus. When a cart is used, use caution when moving the cart/apparatus combination to avoid injury from tip-over.
13. Unplug this apparatus during lightening storms or when unused for long periods of time.
14. Refer all servicing to qualified service personnel. Servicing is required when the apparatus has been damaged in any way, such as power-supply cord or plug is damaged, liquid has been spilled or objects have fallen into the apparatus, the apparatus has been exposed to rain or moisture, does not operate normally, or has been dropped.

Tips and Safety Precautions

THIS PRODUCT HAS BEEN TESTED FOR COMPLIANCE WITH REGULATORY SAFETY CERTIFICATIONS

This product is designed and manufactured to operate within defined design limits, and misuse may result in electric shock or fire. To prevent the product from being damaged, the following rules should be observed for the installation, use and maintenance of the product. Read the following safety instructions before operating the display. Keep these instructions in a safe place for future reference.

- To avoid the risk of electric shock or component damage, switch off the power before connecting other components to the DCL20 LCD MONITOR.
- Unplug the power cord before cleaning the DCL20 LCD MONITOR. Do not use a liquid or a spray cleaner for cleaning the product. Do not use abrasive cleaners.
- Always use the accessories recommended by the manufacturer to insure compatibility.
- When moving the DCL20 LCD MONITOR from an area of low temperature to an area of high temperature, condensation may form on the housing. Do not turn on the DCL20 LCD MONITOR immediately after this to avoid causing fire, electric shock or component damage.
- Do not place the DCL20 LCD MONITOR on an unstable cart, stand, or table. If the DCL20 LCD MONITOR falls, it can injure a person and cause serious damage to the appliance. Use only a cart or stand recommended by the manufacturer or sold with the DCL20 LCD MONITOR.
- Any heat source should maintain a distance of at least 5 feet away from the DCL20 LCD MONITOR, i.e. radiator, heater, oven, amplifier etc. Do not install the product too close to anything that produces smoke or moisture. Operating the product close to smoke or moisture may cause fire or electric shock.
- Slots and openings in the back and bottom of the bezel are provided for ventilation. To ensure reliable operation of the DCL20 LCD MONITOR and to protect it from overheating, be sure these openings are not blocked or covered. Do not place the DCL20 LCD MONITOR in a bookcase or cabinet unless proper ventilation is provided.
- It is not recommended to use the DCL20 LCD MONITOR in a portrait format (by rotating 90 degrees) under high temperature environment (25℃ or higher), since this would retard heat dissipation and would eventually damage the monitor.
- Never push any object into the ventilation slots of the DCL20 LCD MONITOR. Do not place any objects on the top of the Product. It could short circuit parts causing a fire or electric shock. Never spill liquids on the DCL20 LCD MONITOR.
- The DCL20 LCD MONITOR should be operated only from the type of power source indicated on the label. If you are not sure of the type of power supplied to your home, consult your dealer or local power company.

- The power cable must be replaced when using different voltage from that specified in the User Manual. For more information, contact your dealer.
- The DCL20 LCD MONITOR is equipped with a three-pronged grounded plug, a plug with a third (grounding) pin. This plug will fit only into a grounded power outlet as a safety feature. If your outlet does not accommodate the three-wire plug, have an electrician install the correct outlet, or use an adapter to ground the appliance safely. Do not defeat the safety purpose of the grounded plug.
- Do not overload power strips and extension cords. Overloading can result in fire or electric shock.
- The wall socket should be installed near the equipment and should be easily accessible.
- Only the marked power source can be used for the product. Any power source other than the specified one may cause fire or electric shock.
- Do not touch the power cord during thunderstorms. To avoid electric shock, avoid handling the power cord during electrical storms.
- Unplug the unit during a lightning storm or when it will not be used for a long period of time. This will protect the DCL20 LCD MONITOR from damage due to power surges.
- Do not attempt to repair or service the product yourself. Opening or removing the back cover may expose you to high voltages, the risk of electric shock, and other hazards. If repair is required, please contact your dealer and refer all servicing to qualified service personnel.
- Keep the product away from moisture. Do not expose this appliance to rain or moisture. If water penetrates into the product, unplug the power cord and contact your dealer. Continuous use in this case may result in fire or electric shock.
- Do not use the product if any abnormality occurs. If any smoke or odor becomes apparent, unplug the power cord and contact your dealer immediately. Do not try to repair the product yourself.
- Avoid using dropped or damaged appliances. If the product is dropped and the housing is damaged, the internal components may function abnormally. Unplug the power cord immediately and contact your dealer for repair. Continued use of the product may cause fire or electric shock.
- Do not install the product in an area with heavy dust or high humidity. Operating the product in environments with heavy dust or high humidity may cause fire or electric shock.
- Hold the power connector when removing the power cable. Pulling the power cable itself may damage the wires inside the cable and cause fire or electric shocks. When the product will not be used for an extended period of time, unplug the power connector.
- To avoid risk of electric shock, do not touch the connector with wet hands.
- Insert batteries in accordance with instructions while using the remote control. Incorrect polarities may cause damage and leakage of the batteries, operator injury and contamination the remote control.
- If any of the following occurs please contact the dealer:
    - The power connector fails or frays.
    - Liquid sprays or any object drops into the DCL20 LCD MONITOR.
    - The Display is exposed to rain or other moisture.
    - The Display is dropped or damaged in any way.
    - The performance of the Display changes substantially.
- Operating environment: Temperature: 5℃ ~ 35℃, Humidity: 10% to 90% non-condensing, Altitude: 0~10,000 ft.

Table of Contents

FCC Compliance Statement 1
Important Information 3
Important Information 4
Tips and Safety Precautions....5
Table of Contents....7
Opening the Package....9
Package Contents 9
Optional Accessories 9
Installing the Base....10
QUICK START 11
Mounting Preparations 12
Identifying Front and Rear Panel 13
- Front View....13
- Control Buttons 14
- Side View Tilt Angle 15
- Rear View 15
- Rear View Connections....16
- Understanding Your Cables & Connections 16
- Connecting the LCD to Your PC 17
- If You Have DVI Connection on Your Video Card… 17
- If You Have VGA Connection on Your Video Card… 18
- On Screen Display (OSD) Menu 19
- AUTO ADJUST 19
- LUMINANCE 20
- GEOMETRY....21
- COLOR 22
- OSD 23
- LANGUAGE 24
- RECALL....24
- MISCELLANEOUS 25
- EXIT 25

Supported PC Resolution 26
Supported Video Resolution 27
Troubleshooting 27
How do I clean the LCD? 30
Specification 31
Call Us If You Need Help!....33
LIMITED PRODUCT WARRANTY 34
Disclaimer & Copyright Information....36

Dear DCLCD Customer,

Congratulations on your new DCLCD DCL20 LCD monitor purchase. Thank you for your support. To ensure safety and many years of trouble free operation of your LCD monitor, please read the manual carefully before making any adjustments, and keep them in a safe place for future reference. We hope you enjoy your new DCLCD DCL20 LCD monitor.

For technical assistance, please call 1800-788-2878 and select option 3 or email our tech support group at monitor-ts@DCLCD.com.

For all other inquiries, please call 1800-788-2878 and select option 4 or email our customer service group at cs@DCLCD.com.

We recommend you register your DCLCD DCL20 LCD monitor with the enclosed registration card and mail it in. For peace of mind and to protect your investment beyond the standard warranty, DCLCD offers a two year extended warranty service for your LCD monitor. This plan gives additional coverage once your standard warranty period runs out. Please call our customer service group to purchase the extended warranty.

Opening the Package

The DCLCD DCL20 is packaged in a carton together with standard accessories. The weight of the LCD display is approximately 10.36 lbs. Since the LCD panel can be easily scratched or broken, please handle the product gently. Never place the unit on a surface with the glass facing downwards unless it is on a protective padding. When opening the carton, make sure the product is in good condition and that all the standard accessories and items are included. After unpacking your LCD monitor, be sure to save the original box and all packing materials for future shipping needs.

Package Contents

- Monitor Display x 1
- User Manual x 1
- Warranty Card x 1
- Power Cord x 1
- VGA Cable x 1

Optional Accessories

- DVI Cable
- HDMI – DVI Video Conversion Cable

You can order the optional accessories from DCLCD Inc. directly. Please contact DCLCD customer service for further instructions.

Installing the Base

1. Please place the base on a flat surface (i.e. table).

2. Hold the monitor directly 90 degrees above the base.

3. Connect the monitor to the base by inserting the monitor into the base.

QUICK START

The following are general short steps to setup and use the monitor with your PC under the **Microsoft Windows XP operating system**.

1. After you have installed the base, connect your VGA or DVI cord to both the monitor and PC and turn on the PC and the monitor.
2. While booting up keep pressing F8 and choose the VGA mode option.
3. Under Windows, use your mouse to right click on the background with nothing selected. Left click on the PROPERTIES option.
4. Click on the SETTINGS tab.
5. Under SETTINGS change your resolution to 1680 x 1050 and click on APPLY. **(if you are using DVI as your connection click on OK and you are done, steps 6-10 are unnecessary)**
6. Click on ADVANCED button, and then click on MONITOR tab.
7. Under MONITOR make sure your refresh rate is set to 60 Hz.
8. Click on OK on all windows to exit.
9. On the monitor, press the **M** button twice in succession to AUTO ADJUST.
10. Wait until the monitor finishes calibrating. Reboot your computer and your monitor is ready for use.

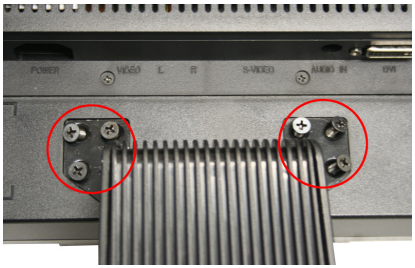
The following are general short steps to setup and use the monitor with your PC under the **Microsoft Windows VISTA operating system**.

1. After you have installed the base, connect your VGA or DVI cord to both the monitor and PC and turn on the PC and the monitor.
2. While booting up keep pressing F8 and choose the VGA mode option.
3. Under Windows, use your mouse to right click on the background with nothing selected. Left click on the PERSONALIZE option.
4. Click on the DISPLAY SETTINGS option.
11. Change your resolution to 1680 x 1050 and click on APPLY. **(if you are using DVI as your connection click on OK and you are done, steps 6-10 are unnecessary)**
5. Click on ADVANCED SETTINGS button, and then click on MONITOR tab.
6. Under MONITOR make sure your refresh rate is set to 60 Hz.
7. Click on OK on all windows to exit.
8. On the monitor, press the **M** button twice in succession to AUTO ADJUST.
9. Wait until the monitor finishes calibrating. Reboot your computer and your monitor is ready for use.

Mounting Preparations

1. Place the monitor on a flat surface with cloth so the bezel does not get scratched.
2.

3. Unscrew the 6 screws that lock the arm to the monitor.



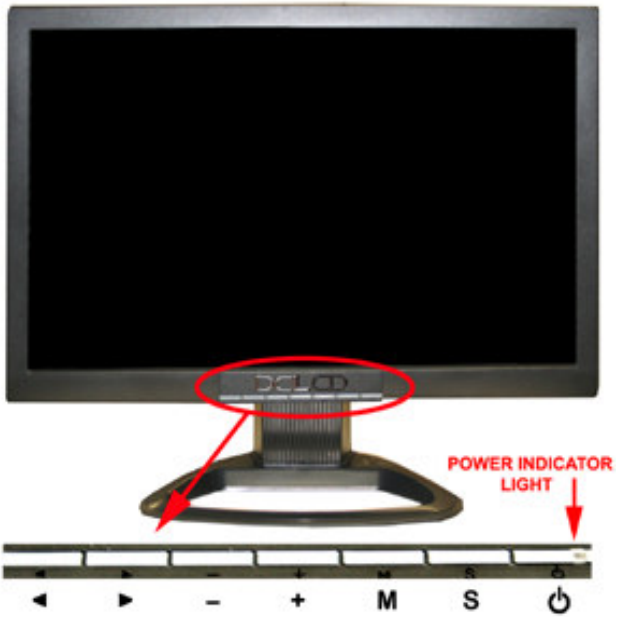
4. Once the 6 screws are removed, the stand will come off and the monitor will be ready for mounting.

Identifying Front and Rear Panel

Front View

NATIVE RESOLUTION : This monitor's clearest picture is produced under its native resolution. The native resolution of the monitor is 1680 x 1050 at 60 Hz refresh rate.

Control Buttons



◄ – This buttons functions as the hotkey for adjusting CONTRAST. Use the + and - key to adjust the actual value.

► – This buttons functions as the hotkey for adjusting BRIGHTNESS. Use the + and - key to adjust the actual value.

(+ & -) – These buttons let you move across the OSD and also changes the setting values.

M – This button opens the On Screen Display (OSD) Menu. While in the OSD, this button also acts as the ENTER button and goes into the function you want to adjust. While adjusting the actual value of options, press the **S** button to exit.

S – This button allows you choose the source of the monitor between VGA and DVI.

⏻ **OWER –** This button turns the monitor **ON or OFF**.

POWER INDICATOR LIGHT – This indicator light turns green when the monitor is turned on. The indicator light turns orange when the monitor is in power saving mode.

Side View Tilt Angle

The LCD Monitor's angle settings range from 3° to 15°.

Rear View

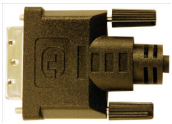
Mounting Specification : **100mm x 100mm** using screw size **M4**. Length of screw should not exceed **10mm**.

Rear View Connections

The following descriptions are from left to right.

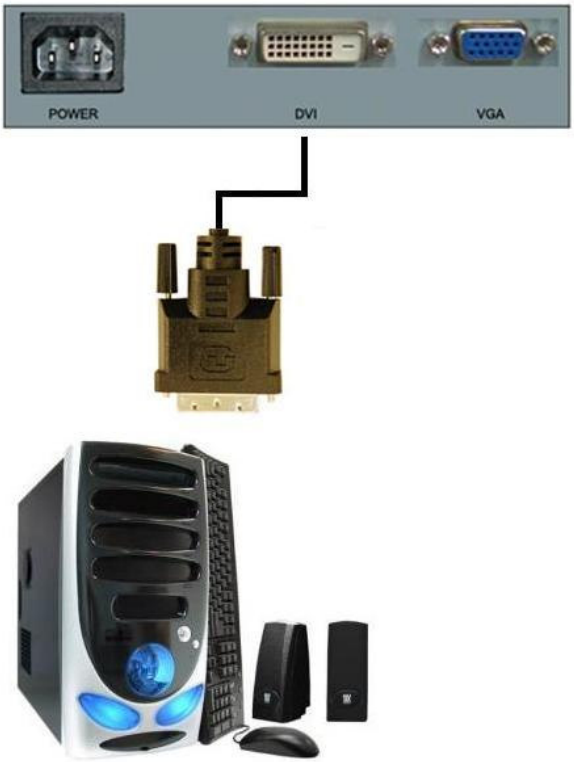
Power – This connection is for providing electric power to the monitor.
DVI – DVI stands for Digital Video Interface. This connection is for computers to send video signals to the monitor digitally so that colors and video are more accurate and vivid.
VGA – VGA stands for Video Graphics Array. This connection is for computers to send video signals to the monitor by an analog signal. This method of connection is the most commonly used connection.

Understanding Your Cables & Connections

Cable Name	Cable Head	Corresponding Connection Picture
DVI (digital video)		
VGA (analog video)		
Power Cord		

Connecting the LCD to Your PC

If You Have DVI Connection on Your Video Card…

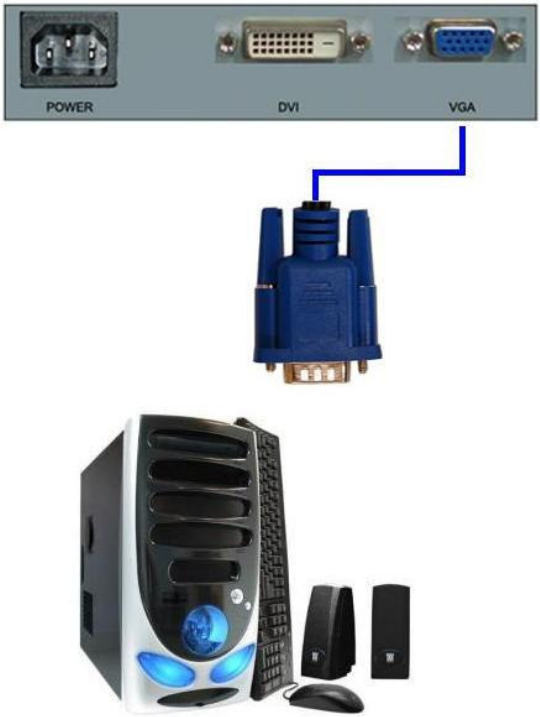


1. Make sure the power of DCL20 LCD MONITOR is turned off.
2. Obtain a DVI cable and connect to the DVI connection on your PC. Connect the other end of the cable to your DCL20 LCD MONITOR.
3. Turn on the power of both the DCL20 LCD MONITOR and the PC.

Please Note :

- Some video cards may have their DVI connection turned off by default. If you do not get video, please consult your video card's technical support.
- The PC's clearest picture is produced under 1680x1050 at 60Hz.

If You Have VGA Connection on Your Video Card…



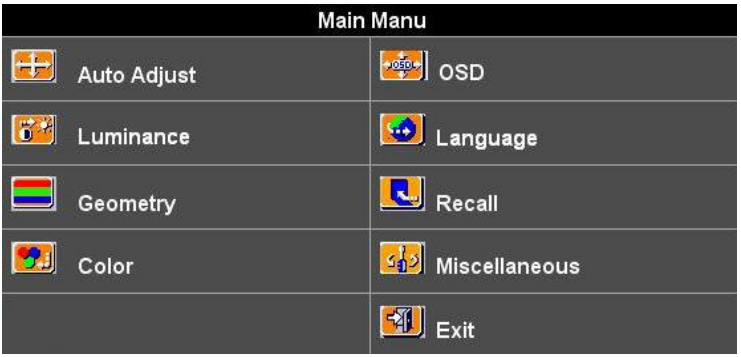
1. Make sure the power of DCL20 LCD MONITOR is turned off.
2. **If you were previously using a CRT (bulky) monitor**, please hook up your old monitor first and make sure your refresh rate is set to 60 Hz frequency before using the DCL20 LCD MONITOR. You can find the refresh rate information and change it by RIGHT CLICKING on the desktop with nothing selected. After you have right clicked, select the ROPERTIES option. Click on the SETTINGS tab. Click on the ADVANCED button. Click on the MONITOR tab. In that tab, change the refresh rate to 60Hz and click on APPLY. After the refresh rate changed, please shut down the computer and monitor.
3. Obtain the VGA cable and connect to the VGA connection on your PC. Connect the other end of the cable to your DCL20 LCD MONITOR.
4. Turn on the power of both the DCL20 LCD MONITOR and the PC.

Please Note :

- The PC's clearest picture is produced under 1680x1050 at 60Hz.

On Screen Display (OSD) Menu

The OSD menu of the monitor provides various adjustments for the monitor such as color, brightness, contrast, screen settings…..etc.



when you're in the function already, use the MENU button to select the option you want to adjust. Use the **(+)** or **(–)** buttons to adjust each option's values.

AUTO ADJUST

This function auto adjusts the clock and phase of the monitor when using VGA cable so the monitor will sync better with the video card and produce a clearer picture.

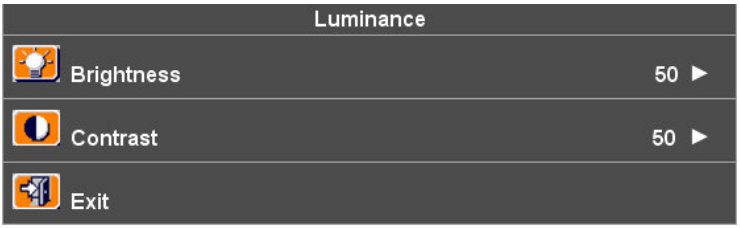
1. You can use this function by pressing MENU, then press **(+)** or **(–)** to select Auto Adjust.
2. Once Auto Adjust is highlighted, press MENU again to use the function.

Please Note :

- This function is only available under VGA.

LUMINANCE

This function adjusts the brightness and contrast of the LCD.



1. To use this function, press MENU to open the OSD then highlight LUMINANCE function by pressing the **(+)** or **(–)** button.
2. Press MENU to enter the function.
3. Press **(+)** or **(–)** button to select BRIGHTNESS or CONTRAST to adjust.
4. Press MENU to select the option you want to adjust.
5. Use the **(+)** or **(–)** button to adjust the values.

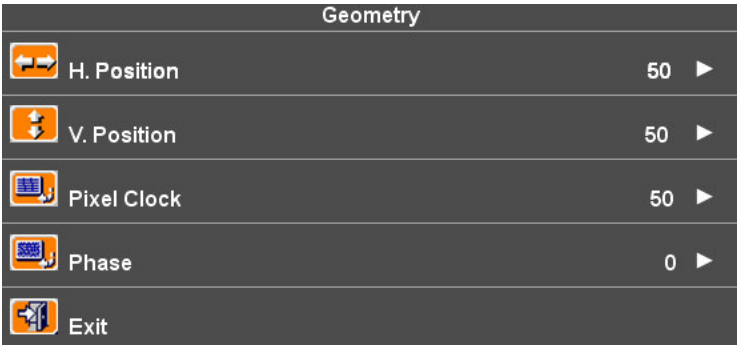
Please Note :

- BRIGHTNESS adjusts the black level in a picture. If the value is adjusted too high, the picture will look washed out. If too low, the picture will not have much detail in dark colors.

- CONTRAST adjusts the white levels in a picture. If the value is adjusted too high, the picture will not have any details in bright parts of the picture. If set too low, the picture will looked washed out.

GEOMETRY

This function adjusts the screen's image quality manually.



1. Press MENU to open the OSD then highlight GEOMETRY by pressing the **(+)** or **(–)** buttons.
2. Press MENU to enter the function.
3. Press the **(+)** or **(–)** buttons to select the option you want to adjust. Use MENU to enter the option and **(+)** or **(–)** buttons to adjust the values.

    a. H-POSITION – This option moves the picture left or right.
    b. V-POSITION – This option moves the picture up or down.
    c. PIXELCLOCK – This option adjusts the video signal in a large increment to sync with the PC.
    d. PHASE – This option adjusts the video signal in a small increment to sync with the PC.

Please Note :

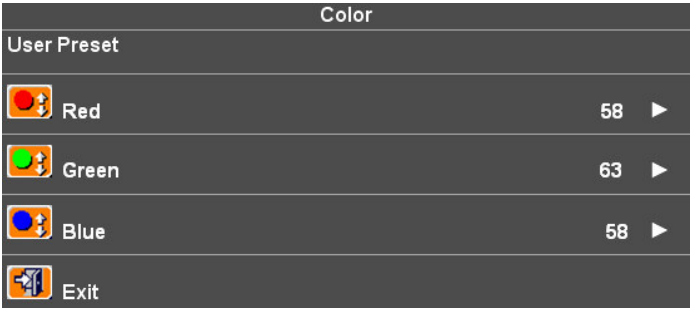
- It is always suggested for the USER to use the AUTO ADJUST function instead of manual adjustments.
- This LCD's native resolution is 1680x1050 at 60 Hz.

COLOR

This function adjusts the overall balance of white colors in a picture in large increments. Color temperature consists of 5800K, 6500K, and 9300K.

1. Press MENU to open the OSD then highlight COLOR by pressing the **(+)** or **(–)** buttons.
2. Press MENU to enter the function.
3. Press **(+)** or **(–)** button to select the option you want to adjust to. Use MENU to select the option.

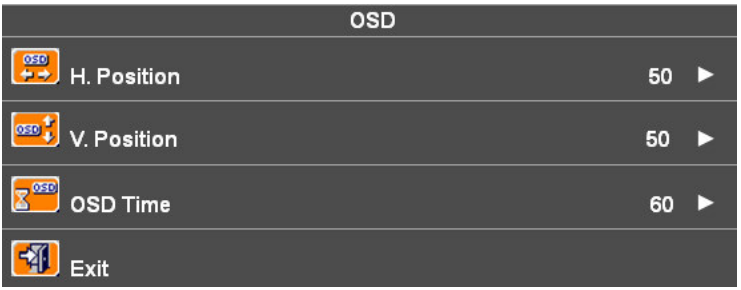
    a. AUTO COLOR – This option adjusts the overall balance of white colors in a picture automatically.
    b. 9300K – This option adjusts the white balance towards the blue color giving the picture a bluish tint and cooler look.
    c. 6500K – This option adjusts the white balance to give the picture a no biased white color.
    d. 5800K – This option adjusts the white balance towards the red color giving the picture a reddish tint and warmer look.
    e. USER PRESET – This option lets the user adjust the white balance by tweaking the RED, GREEN, and BLUE color.



i. Use the **(+)** or **(–)** buttons to select the color you want to adjust and press MENU to select it.
ii. Use the **(+)** or **(–)** button to adjust the values.

OSD

This function adjusts the OSD's display options.



1. Press MENU to open the OSD then highlight OSD by pressing the **(+)** or **(–)** buttons.
2. Press MENU to enter the function.
3. Press the **(+)** or **(–)** buttons to select the option you want to adjust and press MENU to enter the option.
4. Use the **(+)** or **(–)** buttons to adjust the values.
    a. H-POSITION – This option moves the OSD menu left or right.
    b. V-POSITION – This option moves the OSD menu up or down.
    c. OSD TIME – This option change the time which the OSD will remain on screen while idle.

LANGUAGE

This function allows you to change the language of the OSD.

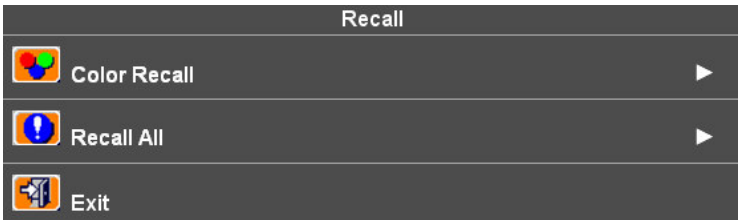
1. Press MENU to open the OSD then highlight LANGUAGE by pressing the **(+)** or **(–)** buttons.
2. Press MENU to enter the function.
3. Press the **(+)** or **(–)** buttons to select the language you want to change to and press MENU to finalize the change.

Please Note :

- Changing the language of the OSD will alter all the messages and OSD language of the monitor. There is no reset for this function.

RECALL

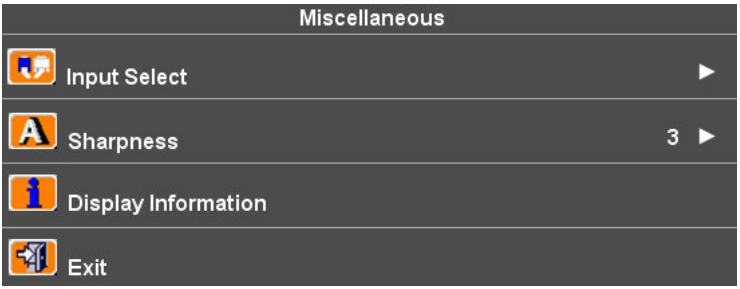
This function recalls adjustments to the monitor.



1. Press MENU to open the OSD then highlight RECALL by pressing the **(+)** or **(–)** buttons.
2. Press MENU to enter the function.
3. Press the **(+)** or **(–)** buttons to select the option you want to recall.
4. Press MENU to enter the option and with the **(+)** or **(–)** buttons select Yes to recall.
    a. COLOR RECALL – recalls all settings of COLOR function.
    b. RECALL ALL – recalls all settings besides COLOR function.

MISCELLANEOUS

This function adjusts many loose options inside the monitor.



1. Press MENU to open the OSD then highlight MISCELLANEOUS by pressing with the **(+)** or **(–)** buttons.
2. Press MENU to enter the function.
3. Press with the **(+)** or **(–)** buttons to select the option you want to adjust and press MENU to adjust the function.
4. Press the **(+)** or **(–)** buttons to adjust the value of the option.
    i. INPUT SELECT – This option lets you select the input you want.
    ii. SHARPNESS – This option adjusts the sharpness of the graphics and text.
    iii. DISPLAY INFORMATION – This option shows the monitor's information such as resolution and refresh rate.

Please Note :

- You can switch sources easily by using the SOUCE button on the side of the monitor.

EXIT

This function exits the OSD menu.

1. Select the EXIT function with the **(+)** or **(–)** buttons and press MENU to exit.

Supported PC Resolution

STD	RES	Dot Clock (MHz)	Vertical Scanning Frequency (Hz)	Horizontal Scanning Frequency (kHz)
DOS	720x400	28.32	70.08	31.47
DOS	640x480	25.18	59.94	31.47
Macintosh	640x480	30.24	67.00	35.00
VESA	640x480	31.50	72.80	37.86
VESA	640x480	31.50	75.00	37.50
VESA	800x600	40.00	60.32	37.88
VESA	800x600	50.00	72.19	48.08
VESA	800x600	49.50	75.00	46.88
VESA	832x624	57.28	74.55	49.73
VESA	1024x768	65.00	60.00	48.36
VESA	1024x768	75.00	70.07	56.48
VESA	1024x768	78.75	75.00	60.02
Macintosh	1024X768	80.00	74.93	60.24
VESA	1152X864	108.00.	75.00	67.50
Macintosh	1152X870	100.00	75.06	68.68
SUN 66	1152x900	94.50	66.00	61.80
SUN	1152x900	108.00	76.14	71.81
VESA	1280X1024	108	60	63.98
IBM1	1280X1024	128.	71.53	75.83
VESA	1280X1024	135	75	80
VESA	1680X1050	119	59.883	64.7
VESA	1680x1050	146.25	59.954	65.29

*Once a mode is optimized, there is no need to make any further adjustment as long as the VGA card remains unchanged. **Specifications are subject to change without notice.

Supported Video Resolution

Item	Standards	Vertical Scanning Frequency (Hz)	Horizontal Scanning Frequency (kHz)
1	720x480i	29.97	15.73
2	720x480P	59.94	31.46
3	1280x720P	60	45
4	1920x1080i	30	33.75
5	1920x1080P	60	67.5

Troubleshooting

Problem	Possible solutions
DISPLAY IS UNCLEAR AND UNSTABLE	To stabilize and clarify your display, use the AUTO ADJUST function or change the resolution to the display's optimal setting 1680 X 1050 at 60Hz, then AUTO ADJUST.
THERE IS NO LCD DISPLAY or SCREEN SAYS NO VIDEO	Make sure you switched to the correct source. Check both sources to see video is on the other source. Check your video cable. It might be corrupt. Swap out the video cable for another one to see if the monitor will work. Check your power plug. See if it is fully plugged in on both the monitor and the wall.
MONITOR SAYS "SIGNAL OUT OF RANGE"	If you have a CRT monitor, please connect the CRT monitor to the computer and change the refresh rate down to 60Hz via your video card's display settings menu. After the setting of 60Hz has been change you can then use the LCD on the computer. 1. To change the setting go to display settings by right clicking on your desktop

Problem (continued)	Possible solutions (continued)
MONITOR SAYS "SIGNAL OUT OF RANGE" (continued)	with nothing selected. Choose the PROPERTIES option. 2. Click on the SETTINGS tab, then click on the ADVANCED button. 3. Click on the MONITOR tab and change the refresh rate to 60Hz. 4. Click on OK 2-3 times to finalize your change. If you do NOT have a CRT monitor or it's already broken, please make sure both the DCL20 monitor and your computer is turned off. 1. Turn on the LCD and the computer. 2. While the computer is turned on, press the "F8" key on your keyboard continuously until a selection menu appears and select the "Safe Mode" option. 3. When you've entered Safe Mode please uninstall any video card driver and monitor driver by using either the "Add / Remove Programs" icon or going into "System Properties" and manually removing anything under "Monitors" and "Display Adapters". 4. After removing all the drivers, please reboot your computer and you should be able to see windows. Please install your monitor driver first, then your video card driver. Please remember to make sure your refresh rate should be at 60Hz.
I CANNOT GET THE RESOLUTION 1680X1050	If you are using DVI, please try out VGA to see if you are able to achieve that resolution. If your VGA can then, your video card's DVI cannot support widescreen resolutions. Sometimes your video card will not read the monitor correctly and will not allow you to achieve the resolution you want. Rebooting your computer will solve the situation.

Problem (continued)	Possible solutions (continued)
I CANNOT GET THE RESOLUTION 1680X1050 (continued)	You can also make sure your video card's video drivers are up to date. You can find what video card you have by clicking on START then RUN. Type in "DXDIAG". When the diagnostic window pops up, click on the DISPLAY tab. The program will tell you what video chipset you have. Copy that name then search it with an online search engine like GOOGLE™. Find your video card company's web address and search for newer drivers. If updating your drivers does not work, you probably have one of the older video cards and cannot achieve a widescreen resolution. You'll need to upgrade your video card to a newer one.
I DO NOT HEAR ANY SOUND FROM THE MONITOR	This monitor does not have internal speakers.
THE VIDEO IS TOO BRIGHT NO MATTER WHAT I ADJUST	Sometimes having older video cards this type of problem might happen due to newer LCDs having to provide HD video capability and not being fully compatible with older video cards. You can try adjusting the video card's options in the computer but ultimately you'll need to upgrade your video card.
THE WORDS AND VIDEO ARE TOO BLURRY	Are you using the monitor's native resolution? If not you'll need to switch resolution to the native 1680x1050 at 60 Hz to make the words clearer. If you're using VGA please do not forget to AUTO ADJUST and to use FORMAT under OSD. If the words are still blurry, please try enabling or disabling CLEAR TYPE function from windows.
THE COLORS ARE NOT CORRECT	Sometimes the colors are not correct because your VGA or DVI cable is loose or corrupt. Please try reconnecting your cable or swap out your current cable to see if the problem persists.

How do I clean the LCD?

IMPORTANT

1. The power cable has to be removed from the socket before cleaning the LCD.
2. Do not use volatile solvent (alcohol, rosin, and toluene) to clean the LCD. These types of chemicals might damage the housing and the LCD glass.

Cleaning the bezel

1. Use a 100% cotton cloth or micro-fiber cloth for cleaning.
2. If the bezel is dirty to the point where you cannot simply dry wipe it, please lightly dampen the wiping material with clean water and wipe again. Wipe the display with a dry micro-fiber cloth or 100% cotton cloth afterwards.

Please Note :

- Make sure you wring the water out of the cloth before cleaning the bezel in order to prevent water from penetrating into the electronics.

Cleaning the Screen

1. Use a 100% cotton cloth or micro-fiber cloth for cleaning.
2. The LCD screen glass is extremely fragile. Do not scrape it with any material. Do not press or tap the screen to avoid cracking. When the screen is dirty to the point where you cannot simply dry wipe it, please lightly dampen the wiping material with clean water and wipe again. Wipe the display with a dry micro-fiber cloth or 100% cotton cloth afterwards.

Specification

Display panel	
Item	Illustration
Active Area / Screen Size	433.44 mm x 270.90 mm Display Area (diagonal 20.1 inches)
Aspect Ratio	Widescreen 16 : 10
Resolution	Native: 1680 x 1050
Brightness	300 nits (Typical)
Contrast	1000:1
Response Time	5ms (Typical), 2ms (Gray to Gray)
Viewing Angle	Typical 160/160 Degree (Horizontal/Vertical)
Lamp Life of Backlight	> 50,000hrs
Monitor Display	
Dimension	18.72(L)X6.89(D)X16.14(H) inches
Weight	10.36 lbs (4.7 Kgs)
Power input	100V to 240VAC @ 50/60 Hz Max, 40W
Features	
VIDEO DVI (HDCP)	480i @ 60 Hz 480p @ 60 Hz 720p @ 60 Hz 1080i @ 60 Hz 1080p @ 60 Hz

Features (continued)	
PC timing	640 * 480 @ 60 , 66 , 72, 75 Hz 800 * 600 @ 60 , 72, 75 Hz 1024 * 768 @ 60, 70, 75 Hz 1152 * 864 @ 75 Hz 1280 * 1024 @ 60, 72 ,75 Hz 1680 * 1050 @ 60 Hz
I/O	VGA, DVI (HDCP)

*Specifications are subject to change without notice.

Call Us If You Need Help!

Products are often returned due to a technical problem rather than a defective product that may result in unnecessary shipping charges billed to you. Our trained support personnel can often resolve the problem over the phone or email. For more information on warranty services or repairs after the warranty period, please contact our support department at the number below.

For technical help, contact our DCLCD Technical Support Group via email or phone. **Please have your DCLCD p/n number, serial number, and date of purchase available before you call.**

Tech Support E-mail : monitor-ts@DCLCD.com
Customer Service Email : cs@DCLCD.com
TEL : 1800-788-2878
Operation Hours : Mon - Fri at 8:30 AM – 5:30 PM (PST)

16800 East Gale Ave.
City of Industry, CA 91745
TEL : 626-369-3698
FAX : 626-855-5711
Website : **www.DCLCD.com**

LIMITED PRODUCT WARRANTY

Please read this warranty card carefully, it is a “ONE-YEAR LIMITED WARRANTY” on parts and labor and is only valid when purchased from an Authorized Reseller, only on new and non-refurbished product, and available to customers in the Continental US, Alaska, Hawaii and Puerto Rico. See below for the DCLCD Extended Service warranty.

DCLCD’s Responsibility
DCLCD Displays purchased in the United States are warranted to be free from defects in materials or workmanship for a period of one (1) year from the date of their original retail purchase. If the unit fails to conform to this warranty, we will service the monitor using new or refurbished parts.

Service Labor
During a period of one (1) year from the effective warranty date, DCLCD will provide, when needed, service labor to repair a manufacturing defect at DCLCD’s own Service Center. To obtain warranty service in the Untied States, you must first call our Customer Support at (800) 788-2878. The determination of service will be made by DCLCD Customer Support. PLEASE DO NOT
RETURN YOUR UNIT TO DCLCD WITHOUT PRIOR AUTHORIZATION.

Parts
New or remanufactured replacements for defective parts will be used for repairs by DCLCD at its designated Service Center for one (1) year from the effective warranty date. Such replacement parts are warranted for the remaining portion of the original warranty period.

Service
During the one (1) year warranty period, DCLCD will, at its option and sole discretion, repair or replace defective parts, including replacement of the entire Panel. The Customer will be required to ship the unit to the Service Center indicated at the time Customer Support is contacted to make the necessary repairs, you are responsible for all transportation charges to the service facility. DCLCD is NOT responsible for the de-installation or re-installation of the unit.

Packaging and Shipping Instruction
When you send the product to an authorized DCLCD service facility you must use the original carton box and packing material or an equivalent as designated by DCLCD.

Not Covered
This warranty does not cover defects, malfunctions or failures resulting from shipping or transit accidents, abuse, misuse, operation contrary to furnished instructions, operation on incorrect power supplies, operation with faulty associated equipment, modification, alteration, improper servicing, tampering or normal wear and tear or TVs on which the serial number has been removed or defaced. Image Sticking caused by operating at excessive brightness levels for extended periods or mishandling are not covered by this warranty.

ANY IMPLIED WARRANTIES, INCLUDING ANY IMPLIED WARRANTY OF

MERCHANTABILITY AND FITNESS FOR A PARTICULAR PURPOSE SHALL BE LIMITED IN DURATION TO THE PERIOD OF TIME SET FORTH ABOVE. OUR LIABILITY FOR ANY AND ALL LOSSES AND DAMAGES RESULTING FROM ANY CAUSE WHATSOEVER, INCLUDING OUR NEGLIGENCE, ALLEGED DAMAGE OR DEFECTIVE GOODS, WHETHER SUCH DEFECTS ARE DISCOVERABLE OR LATENT, SHALL IN NO EVENT EXCEED THE PURCHASE PRICE OF THE DISPLAY. WE SHALL NOT BE RESPONSIBLE FOR LOSS OF USE, COMMERCIAL LOSS OR OTHER INCIDENTAL OR CONSEQUENTIAL DAMAGES. SOME STATES DO NOT ALLOW LIMITATIONS ON HOW LONG AN IMPLIED WARRANTY LASTS OR THE EXCLUSION OR LIMITATION OF INCIDENTAL OR CONSEQUENTIAL DAMAGES, SO THE ABOVE LIMITATIONS OR EXCLUSIONS MAY NOT APPLY TO YOU. This warranty gives you specific legal rights, and you may also have other rights which vary from state to state. This is the only warranty applicable; no one is authorized to extend or modify it or to grant any other warranty.
DCLCD retains the right to assess all warranty claims and to determine if damages are covered by the warranty. In case of a claim that is not covered by the warranty, you will be contacted to determine whether DCLCD should repair the damage for a fee or whether the product should be returned to you as received by the repair center.

Dead Pixel Policy
There are millions of pixels on a LCD screen. Therefore, there is industry standard specification regarding dead or bad pixels. DCLCD sets limit on the LCD at 3 dead pixels in a cluster adjacent to each other, 5 dead pixels of the same brightness and color, or 8 total in a combination of color and brightness of dead pixels. Any number of dead or bad pixels under the limit is considered normal specification.

Owner's Responsibility
Effective Warranty Date
Warranty begins on the date of sale to the end user. To ensure warranty service, keep the dated bill or sale receipt as evidence of the purchase date.

Warranty Service
For warranty service information, contact DCLCD Customer Support at (800) 788-2878, 8:30 am to 5:30 pm PST or visit www.DCLCD.com. Parts and service labor that are DCLCD's responsibility (see above) will be provided without charge. Other service is at the owner's expense. You must provide the model, serial number and date of purchase. Before you ask for warranty service, read your User Manual. You might avoid a service call.
Warranty conditions are subject to change, for latest Warranty Terms and Conditions and additional information regarding your warranty, please see complete details online at www.DCLCD.com.

DCLCD Extended Warranty
Protect your investment beyond the standard warranty and experience piece of mind with DCLCD's Extended Service Warranty.
Depending on your model, plans are offered for an additional 2 years. Visit www.DCLCD.com or call 1-800-788-2878 to purchase a plan today.

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